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 September 2006 GH '06: Proceedings of the 21st ACM SIGGRAPH/Eurographics symposium on Graphics hardware
Publisher: ACM
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 Anish Bhimani
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5 Silicon physical random functions

 Blaise Gassend, Dwaine Clarke, Marten van Dijk, Srinivas Devadas
November 2002 CCS '02: Proceedings of the 9th ACM conference on Computer and communications security

Publisher: ACM

Full text available:  Pdf (433.69 KB)

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We introduce the notion of a Physical Random Function (PUF). We argue that a complex integrated circuit can be viewed as a silicon PUF and describe a technique to identify and authenticate individual integrated circuits (ICs). We describe several possible ...

Keywords: identification, physical random function, physical security, smartcard, tamper resistance, unclonability

6 Digital rights management using a mobile phone

 Imad M. Abbadi, Chris J. Mitchell
August 2007 ICEC '07: Proceedings of the ninth international conference on Electronic commerce

Publisher: ACM

Full text available:  Pdf (497.09 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 17, Downloads (12 Months): 194, Citation Count: 0

This paper focuses on the problem of preventing illegal copying of digital assets without jeopardising the right of legitimate licence holders to transfer content between their own devices, which make up a domain. Our novel idea involves the use of a ...

Keywords: 3GPP GAA, DRM, access control, authorised domain management, copyright protection, trusted computing

7 Practical byzantine fault tolerance and proactive recovery

 Miguel Castro, Barbara Liskov
November 2002 Transactions on Computer Systems (TOCS) , Volume 20 Issue 4

Publisher: ACM

Full text available:  Pdf (1.63 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#), [review](#)

Bibliometrics: Downloads (6 Weeks): 46, Downloads (12 Months): 384, Citation Count: 25

Our growing reliance on online services accessible on the Internet demands highly available systems that provide correct service without interruptions. Software bugs, operator mistakes, and malicious attacks are a major cause of service interruptions ...

Keywords: Byzantine fault tolerance, asynchronous systems, proactive recovery, state machine replication, state transfer

8 Hardening Web browsers against man-in-the-middle and eavesdropping

 **attacks**

Haidong Xia, José Carlos Brustoloni

May 2005 WWW '05: Proceedings of the 14th international conference on World Wide Web

Publisher: ACM

Full text available:  Pdf (770.11 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 54, Downloads (12 Months): 261, Citation Count: 4

Existing Web browsers handle security errors in a manner that often confuses users. In particular, when a user visits a secure site whose certificate the browser cannot verify, the browser typically allows the user to view and install the certificate ...

Keywords: HTTPS, SSL, Web browser, certificate, eavesdropping attack, just-in-time instruction, man-in-the-middle attack, password, safe staging, well-in-advance instruction

9 Public-key cryptography and password protocols

 Shai Halevi, Hugo Krawczyk

August 1999 Transactions on Information and System Security (TISSEC) , Volume 2 Issue 3

Publisher: ACM

Full text available:  Pdf (275.84 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#), [review](#)

Bibliometrics: Downloads (6 Weeks): 71, Downloads (12 Months): 342, Citation Count: 12

We study protocols for strong authentication and key exchange in asymmetric scenarios where the authentication server possesses ~ a pair of private and public keys while the client has only a weak human-memorable password as its authentication key. ...

Keywords: dictionary attacks, hand-held certificates, key exchange, passwords, public passwords, public-key protocols

10 Designing a distributed access control processor for network services on the Web

 Reiner Kraft

November 2002 XMLSEC '02: Proceedings of the 2002 ACM workshop on XML security

Publisher: ACM

Full text available:  Pdf (301.14 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 30, Downloads (12 Months): 176, Citation Count: 4

The service oriented architecture (SOA) is gaining more momentum with the advent of network services on the Web. A programmable and machine accessible Web is the vision of many, and might represent a step towards the semantic Web. However, security is ...

Keywords: Web services, XML, access control, security

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